BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer-Yelahanka Division

Detailed Combined Estimate

Name of Work :-Developments of roads and drains at Venkatala, Kenchenahalli, Nagenahalli, Harohalli village and Drilling of borewells and providing pipe line at SC/ST areas in ward no:01 and 02 of Yelahanka Division (Package no:08)

Est Cost:- 50000000.00

Sl. No.	Description of item	Rate	Unit	Nos	Dimension L(m)	Dimension B (m)	Dimension D(m)	Rate in Rs	Amount in Rs
1.00	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (Page No.143 & Item No-19.1)								
	Desilting	Cum							
	Venkatala Main Road LHS and RHS		1.00	190.00	0.60	0.60	68.40		
	Janatha Colony Area Cross Roads		1.00	1020.00	0.60	0.60	367.20		
	1st Main Road		1.00	192.00	0.60	0.60	69.12		
	1st Cross Road		2.00	110.00	0.60	0.65	85.80		
	2nd Cross Road LHS and RHS		1.00	250.00	0.60	0.60	90.00		
	3rd Cross Road LHS and RHS		1.00	220.00	0.60	0.60	79.20		
	Nagenahalli Village LHS		1.00	40.00	0.60	0.60	14.40		
	Nagenahalli Temple Road		1.00	36.00	0.60	0.60	12.96		
	Bar Raod		2.00	180.00	0.60	0.60	129.60		
	Harohalli Cross Roads		2.00	120.00	0.60	0.60	86.40		
	debris		6.00	15.00	3.00	0.60	162.00		
			5.00	10.00	3.50	0.75	131.25		
					Total Qty		**1296.33**	137.80	**178634.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2.00	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 (Page No.143 & Item No-19.1)								
	Removal of Debris	Cum							
	at Kerekodi Road		10.00	30.00	3.50	0.75	787.50		
	Janatha Colony		12.00	10.00	3.15	0.80	302.40		
	Cross Roads and Main Roads		6.00	25.00	4.00	0.60	360.00		
	Cross Roads and Main Roads		5.00	15.00	3.00	0.80	180.00		
	Railway Compound parallel Road		10.00	12.00	3.50	0.60	252.00		
			8.00	8.00	3.00	0.60	115.20		
					Total Qty		**1997.10**	34.98	**69859.00**
	Basic Rate	33.00							
	Area Weightage @ 6%	1.98							
	Total	**34.98**							
3.00	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No.140 & Item No-18.47)								
	for CC Roads	Cum							
	Jayamuni Cross Road.1		1.00	36.00	2.30	0.30	24.84		
	Jayamuni Cross Road.2		1.00	35.00	2.20	0.30	23.10		

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Jayamuni Cross Road.6		1.00	33.00	2.30	0.30	22.77		
Jayamuni Cross Road.7		1.00	34.00	2.30	0.30	23.46		
Jayamuni Cross Road.8		1.00	31.00	2.50	0.30	23.25		
Jayamuni Cross Road.9		1.00	32.00	2.60	0.30	24.96		
Service Road Cross		1.00	15.00	2.50	0.30	11.25		
Temple Road		1.00	150.00	3.50	0.30	157.50		
Cross Roads		1.00	18.00	4.00	0.30	21.60		
Cross Roads		1.00	18.00	4.00	0.30	21.60		
Cross Roads		1.00	18.00	4.00	0.30	21.60		
Cross Roads		1.00	18.00	4.00	0.30	21.60		
Venkatala village Road		1.00	56.00	2.90	0.30	48.72		
1st Cross Road		1.00	180.00	4.50	0.30	243.00		
2nd Cross Road		1.00	90.00	3.00	0.30	81.00		
1st Cross Road		1.00	110.00	4.00	0.30	132.00		
Sub Cross Venkatesh House Road		1.00	20.00	8.00	0.30	48.00		
Harohalli Village Road		1.00	40.00	2.00	0.30	24.00		
Cross Road 1		1.00	56.00	3.00	0.30	50.40		
Cross Road 2		1.00	40.00	3.50	0.30	42.00		
Cross Road 3		1.00	80.00	3.00	0.30	72.00		
Cross Road 4		1.00	10.00	2.00	0.30	6.00		
Cross Road of Nagenahalli Main		1.00	180.00	4.00	0.30	216.00		
Nagenahalli Village LHS Side		1.00	110.00	3.50	0.30	115.50		
				Total Qty		**1476.15**		
Deduct 30% of Void Portion (Road Cuttings, Pot Holes and Dilapidated Portion)						442.85		
				Net Qty		**1033.31**	952.94	**984677.67**
Basic Rate	899.00							
Area Weightage @ 6%	53.94							
Total	**952.94**							

4.00	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in **hard soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (Page No.143 & Item No-19.2)								
	for New Rcc Drains	Cum							
	Car Garage Road		2.00	25.00	1.00	1.00	50.00		
	Cross Road B (MARQ Masjid) of 5th		2.00	32.00	1.00	1.00	64.00		
	Well Area Cross Road 1		1.00	33.00	1.00	1.00	33.00		
	Well Area Cross Road 2		1.00	34.00	1.00	1.00	34.00		
	Well Area Cross Road 3		1.00	31.00	1.00	1.00	31.00		
	Well Area Cross Road 4		1.00	45.00	1.00	1.00	45.00		
	Jayamuni Layout Well road		2.00	175.00	1.10	1.00	385.00		
	Jayamuni Layout Well Area Cross		1.00	95.00	1.00	1.00	95.00		
	for RCC Culverts		12.00	4.00	1.30	1.00	62.40		
	Kenchenahalli Village		2.00	90.00	1.00	1.00	180.00		
	for RCC Culverts		7.00	4.00	1.30	1.00	36.40		
	Harohalli Village LHS & RHS		2.00	40.00	1.00	1.00	80.00		
	for RCC Culverts		3.00	6.00	1.30	1.20	28.08		
					Total Qty		**1123.88**	189.74	**213245.00**
	Basic Rate	179.00							
	Area Weightage @ 6%	10.74							
	Total	**189.74**							

00	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (P.No.143/ Item No.19.14)								
	for CC Roads	Cum							
	Jayamuni Cross Road.1		1.00	36.00	2.30	0.45	37.26		
	Jayamuni Cross Road.2		1.00	35.00	2.20	0.45	34.65		
	Jayamuni Cross Road.6		1.00	33.00	2.30	0.45	34.16		
	Jayamuni Cross Road.7		1.00	34.00	2.30	0.45	35.19		
	Jayamuni Cross Road.8		1.00	31.00	2.50	0.45	34.88		
	Jayamuni Cross Road.9		1.00	32.00	2.60	0.45	37.44		
	Service Road Cross		1.00	15.00	2.50	0.45	16.88		
	Temple Road		1.00	150.00	3.50	0.45	236.25		
	Cross Roads		1.00	18.00	4.00	0.45	32.40		
	Cross Roads		1.00	18.00	4.00	0.45	32.40		
	Cross Roads		1.00	18.00	4.00	0.45	32.40		
	Cross Roads		1.00	18.00	4.00	0.45	32.40		
	Venkatala village Road		1.00	56.00	2.90	0.45	73.08		
	New Road Janatha Colony		1.00	175.00	5.00	0.60	525.00		
	Kerekodi Road (Road cut Portion)		1.00	310.00	1.20	0.45	167.40		
	Edges of drain		1.00	310.00	0.60	0.45	83.70		
	Cross Road C of 5th Cross		1.00	25.00	4.00	0.45	45.00		
	Cross Road B (MARQ Masjid) of 5th		1.00	32.00	4.50	0.45	64.80		
	kerekodi road (New Portion)		1.00	20.00	4.00	0.60	48.00		
	for CC Roads, Harohalli								
	1st Cross Road		1.00	180.00	4.50	0.45	364.50		
	2nd Cross Road		1.00	90.00	3.00	0.45	121.50		
	Harohalli Circle		1.00	110.00	4.00	0.45	198.00		
	Harohalli Village Road		1.00	20.00	8.00	0.45	72.00		
	Pavan Redidancy		1.00	40.00	2.00	0.45	36.00		
	Srinidhi Layout		1.00	192.00	4.80	0.45	414.72		
	for CC Roads								
	Cross Road 1		1.00	56.00	3.00	0.45	75.60		
	Cross Road 2		1.00	40.00	3.50	0.45	63.00		
	Cross Road 3		1.00	80.00	3.00	0.45	108.00		
	Cross Road 4		1.00	10.00	2.00	0.45	9.00		
	Cross Road 5		1.00	40.00	6.00	0.45	108.00		
	Cross Road of Nagenahalli Main		1.00	180.00	4.00	0.45	324.00		
	Nagenahalli Village LHS Side		1.00	110.00	3.50	0.45	173.25		
	for Asphalt Road								
	CNR Bar Road		1.00	195.00	6.00	0.45	526.50		
	Nagenahalli Village Road 1		1.00	150.00	5.00	0.45	337.50		
	Nagenahalli Village Road 2		1.00	155.00	6.00	0.45	418.50		
					Total Qty		**4953.35**	43.46	**215272.00**
	Basic Rate	41.00							
	Area Weightage @ 6%	2.46							
	Total	**43.46**							
6.00	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.136 & Item No 17.1)								
		Cum							
			Qty Vide Item No.1+2+3+4+6				**10403.96**	95.40	**992537.78**
	Basic Rate for Haulage of materials as per Item No.17.4	2.00 t.k							

	Area Weightage of earth (1.28 tonne/km) for 15km	38.40								
	Add loading and unloading Item No 17.1)	57.00								
	Total	95.40								
7.00	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (P.No.147/ Item No.19.64)									
	for CC Roads	Sqm								
	Jayamuni Cross Road.1		1.00	36.00	2.30		82.80			
	Jayamuni Cross Road.2		1.00	35.00	2.20		77.00			
	Jayamuni Cross Road.6		1.00	33.00	2.30		75.90			
	Jayamuni Cross Road.7		1.00	34.00	2.30		78.20			
	Jayamuni Cross Road.8		1.00	31.00	2.50		77.50			
	Jayamuni Cross Road.9		1.00	32.00	2.60		83.20			
	Service Road Cross		1.00	15.00	2.50		37.50			
	Temple Road		1.00	150.00	3.50		525.00			
	Cross Roads		1.00	18.00	4.00		72.00			
	Cross Roads		1.00	18.00	4.00		72.00			
	Cross Roads		1.00	18.00	4.00		72.00			
	Cross Roads		1.00	18.00	4.00		72.00			
	Venkatala village Road		1.00	56.00	2.90		162.40			
	New Road Janatha Colony		1.00	175.00	5.00		875.00			
	Kerekodi Road (Road cut Portion)		1.00	310.00	1.20		372.00			
	Edges of drain		1.00	310.00	0.60		186.00			
	Cross Road C of 5th Cross		1.00	25.00	4.00		100.00			
	Cross Road B (MARQ Masjid) of 5th		1.00	32.00	4.50		144.00			
	kerekodi road (New Portion)		1.00	20.00	4.00		80.00			
	for CC Roads									
	1st Cross Road		1.00	180.00	4.50		810.00			
	2nd Cross Road		1.00	90.00	3.00		270.00			
	Harohalli Circle		1.00	110.00	4.00		440.00			
	Harohalli Village Road		1.00	20.00	8.00		160.00			
	Pavan Redidancy		1.00	40.00	2.00		80.00			
	Srinidhi Layout		1.00	192.00	4.80		921.60			
	for CC Roads									
	Cross Road 1		1.00	56.00	3.00		168.00			
	Cross Road 2		1.00	40.00	3.50		140.00			
	Cross Road 3		1.00	80.00	3.00		240.00			
	Cross Road 4		1.00	10.00	2.00		20.00			
	Cross Road 5		1.00	40.00	6.00		240.00			
	Cross Road of Nagenahalli Main		1.00	180.00	4.00		720.00			
	Nagenahalli Village LHS Side		1.00	110.00	3.50		385.00			
	for Asphalt Road									
	CNR Bar Road		1.00	195.00	6.00		1170.00			
	Nagenahalli Village Road 1		1.00	150.00	5.00		750.00			
	Nagenahalli Village Road 2		1.00	155.00	6.00		930.00			
					Total Qty		**10689.10**	6.36	**67983.00**	
	Basic Rate	6.00								
	Area Weightage @ 6%	0.36								
	Total	**6.36**								

KSRB 4-1.3 : Providing and laying in position plain cement concrete of **Mix 1:4:8** with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No.13 & Item No.4.3)								
for New Rcc Drains	Cum							
Car Garage Road		2.00	25.00	1.00	0.15	7.50		
Cross Road B (MARQ Masjid) of 5th		2.00	32.00	1.00	0.15	9.60		
Well Area Cross Road 1		1.00	33.00	1.00	0.15	4.95		
Well Area Cross Road 2		1.00	34.00	1.00	0.15	5.10		
Well Area Cross Road 3		1.00	31.00	1.00	0.15	4.65		
Well Area Cross Road 4		1.00	45.00	1.00	0.15	6.75		
Jayamuni Layout Well road		2.00	175.00	1.10	0.15	57.75		
Jayamuni Layout Well Area Cross		1.00	95.00	1.00	0.15	14.25		
for RCC Culverts		12.00	4.00	1.30	0.15	9.36		
for CC Roads								
Jayamuni Cross Road.1		1.00	36.00	2.30	0.15	12.42		
Jayamuni Cross Road.2		1.00	35.00	2.20	0.15	11.55		
Jayamuni Cross Road.6		1.00	33.00	2.30	0.15	11.39		
Jayamuni Cross Road.7		1.00	34.00	2.30	0.15	11.73		
Jayamuni Cross Road.8		1.00	31.00	2.50	0.15	11.63		
Jayamuni Cross Road.9		1.00	32.00	2.60	0.15	12.48		
Service Road Cross		1.00	15.00	2.50	0.15	5.63		
Temple Road		1.00	150.00	3.50	0.15	78.75		
Cross Roads		1.00	18.00	4.00	0.15	10.80		
Cross Roads		1.00	18.00	4.00	0.15	10.80		
Cross Roads		1.00	18.00	4.00	0.15	10.80		
Cross Roads		1.00	18.00	4.00	0.15	10.80		
Venkatala village Road		1.00	56.00	2.90	0.15	24.36		
New Road Janatha Colony		1.00	175.00	5.00	0.15	131.25		
Kerekodi Road (Road cut Portion)		1.00	310.00	1.20	0.15	55.80		
Edges of drain		1.00	310.00	0.60	0.15	27.90		
Cross Road C of 5th Cross		1.00	25.00	4.00	0.15	15.00		
Cross Road B (MARQ Masjid) of 5th		1.00	32.00	4.50	0.15	21.60		
kerekodi road (New Portion)		1.00	20.00	4.00	0.15	12.00		
for New Rcc Drains	Cum							
Kenchenahalli Village		2.00	90.00	1.00	0.15	27.00		
for RCC Culverts		7.00	4.00	1.30	0.15	5.46		
for CC Roads								
1st Cross Road		1.00	180.00	4.50	0.15	121.50		
2nd Cross Road		1.00	90.00	3.00	0.15	40.50		
Harohalli Circle		1.00	110.00	4.00	0.15	66.00		
Harohalli Village Road		1.00	20.00	8.00	0.15	24.00		
Pavan Redidancy		1.00	40.00	2.00	0.15	12.00		
Srinidhi Layout		1.00	192.00	4.80	0.15	138.24		
for New Rcc Drains	**Cum**							
Harohalli Village LHS & RHS		2.00	40.00	1.00	0.15	12.00		
for RCC Culverts		3.00	6.00	1.30	0.15	3.51		
for CC Roads								
Cross Road 1		1.00	56.00	3.00	0.15	25.20		
Cross Road 2		1.00	40.00	3.50	0.15	21.00		
Cross Road 3		1.00	80.00	3.00	0.15	36.00		
Cross Road 4		1.00	10.00	2.00	0.15	3.00		
Cross Road 5		1.00	40.00	6.00	0.15	36.00		
Cross Road of Nagenahalli Main		1.00	180.00	4.00	0.15	108.00		
Nagenahalli Village LHS Side		1.00	110.00	3.50	0.15	57.75		
				Total Qty		1343.75	5408.12	**7267134.21**

Basic Rate	5102.00							
Area Weightage @ 6%	306.12							
Total	**5408.12**							

Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications. -do- Wall & bottom thickness 15cm (Page.No.271 & Item No-37.59.2)

Raft	**Cum**							
Car Garage Road		2.00	25.00	0.90	0.15	6.75		
Cross Road B (MARQ Masjid) of 5th		2.00	32.00	0.90	0.15	8.64		
Well Area Cross Road 1		1.00	33.00	0.90	0.15	4.46		
Well Area Cross Road 2		1.00	34.00	0.90	0.15	4.59		
Well Area Cross Road 3		1.00	31.00	0.90	0.15	4.19		
Well Area Cross Road 4		1.00	45.00	0.90	0.15	6.08		
Jayamuni Layout Well road		2.00	175.00	0.90	0.15	47.25		
Jayamuni Layout Well Area Cross		1.00	95.00	0.90	0.15	12.83		
for RCC Culverts		12.00	4.00	1.20	0.23	13.25		
Side Wall		4.00	25.00	0.15	0.60	9.00		
		4.00	32.00	0.15	0.60	11.52		
		2.00	33.00	0.15	0.60	5.94		
		2.00	34.00	0.15	0.60	6.12		
		2.00	31.00	0.15	0.60	5.58		
		2.00	45.00	0.15	0.60	8.10		
		4.00	175.00	0.15	0.60	63.00		
		2.00	95.00	0.15	0.60	17.10		
		24.00	4.00	0.25	0.75	18.00		
Raft	**Cum**							
Kenchenahalli Village		2.00	90.00	0.90	0.15	24.30		
for culverts		7.00	4.00	1.20	0.20	6.72		
side wall		4.00	90.00	0.15	0.60	32.40		
		14.00	4.00	0.30	0.75	12.60		
Raft	**Cum**							
Harohalli Village LHS & RHS		2.00	40.00	0.90	0.15	10.80		
for culverts		3.00	6.00	1.20	0.20	4.32		
side wall		4.00	40.00	0.15	0.60	14.40		
		6.00	6.00	0.30	0.75	8.10		
				Total Qty		**366.02**	7070.20	**2587820.46**
Basic Rate	6670.00							
Area Weightage @ 6%	400.20							
Total	**7070.20**							

10	KSRB 4.9.2:Providing **T.M.T steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 (Page No.18 & Item No.4.46.2)								
		tonne						
		60% of Qty Vide Item No.9 in Qtl				225.90		
					in tonne	**22.59**	75223.96	**1699309.26**
	Basic Rate	70966.00						

	Area Weightage @ 6%	112.92							
	Total	**1994.92**							
15	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (Page No.175&176 & Item No.22(a))								
	for CC Roads	**Cum**							
	Jayamuni Cross Road.1		1	36.00	2.30	0.15	12.42		
	Jayamuni Cross Road.2		1	35.00	2.20	0.15	11.55		
	Jayamuni Cross Road.6		1	33.00	2.30	0.15	11.39		
	Jayamuni Cross Road.7		1	34.00	2.30	0.15	11.73		
	Jayamuni Cross Road.8		1	31.00	2.50	0.15	11.63		
	Jayamuni Cross Road.9		1	32.00	2.60	0.15	12.48		
	Service Road Cross		1	15.00	2.50	0.15	5.63		
	Temple Road		1	150.00	3.50	0.15	78.75		
	Cross Roads		1	18.00	4.00	0.15	10.80		
	Cross Roads		1	18.00	4.00	0.15	10.80		
	Cross Roads		1	18.00	4.00	0.15	10.80		
	Cross Roads		1	18.00	4.00	0.15	10.80		
	Venkatala village Road		1	56.00	2.90	0.15	24.36		
	New Road Janatha Colony		1	175.00	5.00	0.15	131.25		
	Kerekodi Road (Road cut Portion)		1	310.00	1.20	0.15	55.80		
	Edges of drain		1	310.00	0.60	0.15	27.90		
	Cross Road C of 5th Cross		1	25.00	4.00	0.15	15.00		
	Cross Road B (MARQ Masjid) of 5th		1	32.00	4.50	0.15	21.60		
	kerekodi road (New Portion)		1	20.00	4.00	0.15	12.00		
	for CC Roads	**Cum**							
	3rd Main Road (samudayabavana)		1	180.00	4.50	0.15	121.50		
	2nd Cross Road		1	90.00	3.00	0.15	40.50		
	1st Cross Road		1	110.00	4.00	0.15	66.00		
	Muneshwara temple approach		1	20.00	8.00	0.15	24.00		
	Passages		1	40.00	2.00	0.15	12.00		
	Railway Compound parallel Road		1	192.00	4.80	0.15	138.24		
	for CC Roads	Cum							
	Cross Road 1		1	56.00	3.00	0.15	25.20		
	Cross Road 2		1	40.00	3.50	0.15	21.00		
	Cross Road 3		1	80.00	3.00	0.15	36.00		
	Cross Road 4		1	10.00	2.00	0.15	3.00		
	Cross Road 5		1	40.00	6.00	0.15	36.00		
	Cross Road of Nagenahalli Main		1	180.00	4.00	0.15	108.00		
	Nagenahalli Village LHS Side		1	110.00	3.50	0.15	57.75		
					Total Qty		**1175.87**	5210.96	**6127385.48**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							

	Nagenahalli Village Sub Roads		1.00	185.70	4.00	0.30	222.84		
	For Pipeline Cut Portion		1.00	1750.00	0.60	0.20	210.00		
					Total Qty		**1287.75**	2001.28	**2577148.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
22	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 158/ Item No. 21.6/ PWD SR 2018-19 Current Rate w.e.f 01/07/2020								
	for Asphalt Road	Cum							
	CNR Bar Road		1.00	195.00	6.00		1170.00		
	Nagenahalli Village Road 1		1.00	150.00	5.00		750.00		
	Nagenahalli Village Road 2		1.00	155.00	6.00		930.00		
					Total Qty		**2850.00**	29.68	**84588.00**
	Basic Rate	28.00							
	Area Weightage @ 6%	1.68							
	Total	**29.68**							
23	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.160 It.No.21.17.6) Current Rate w.e.f 01/07/2020								
	for Asphalt Road	Cum							
	CNR Bar Road		1.00	195.00	6.00	0.05	58.50		
	Nagenahalli Village Road 1		1.00	150.00	5.00	0.05	37.50		
	Nagenahalli Village Road 2		1.00	155.00	6.00	0.05	46.50		
					Total Qty		**142.50**	6407.70	**913097.00**
	Basic Rate	6045.00							
	Area Weightage @ 6%	362.70							
	Total	**6407.70**							
24	KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications . (P.No.158 & I.No.21.7) Current Rate w.e.f 01/07/2020								
	for Asphalt Road	Cum							
	CNR Bar Road		1.00	195.00	6.00		1170.00		
	Nagenahalli Village Road 1		1.00	150.00	5.00		750.00		
	Nagenahalli Village Road 2		1.00	155.00	6.00		930.00		
					Total Qty		**2850.00**	12.72	**36252.00**
	Basic Rate	12.00							
	Area Weightage @ 6%	0.72							
	Total	**12.72**							
25	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 -- do -- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.162 Item No.21.78.12) Current Rate w.e.f 01/07/2020								

	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.(P.No.41 It.No.6.9)40mm								
		Mtr							
			4	4.00			16.00	335.00	5360.00
	Electrical SR 2019-20	335.00							
47	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. (P.No.42 It.No.6.10.2)16Sqmm								
		No							
	16Sqmm		4				4.00	270.00	1080.00
	Electrical SR 2019-20	270.00							
48	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (P.No.40 It.No.6.1)								
		No							
			4				4.00	2999.70	11999.00
	Electrical SR 2019-20	2999.70							
49	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32 Amps (P.No.25 It.No.5.7.2)								
		No							
			8				8.00	174.00	1392.00
	Electrical SR 2019-20	174.00							
50	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (P.No.27 It.No.5.17.7)								
		No							
			4				4.00	1715.00	6860.00
	Electrical SR 2019-20	1715.00							
51	Fabricating supplying and mounting MS box made out 16SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. (P.No.31 It.No.5.42.2)								
		Sq.Cm							
			4	21600			86400		
							86400	0.35	30240.00
	Electrical SR 2019-20	0.35							
52	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility 600mmx600mmx170mm (P.No.31 It.No.5.44.4)								
		No.							
			4				4.00	12081.00	48324.00
	Electrical SR 2019-20	12081.00							

	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	2001.28							
58	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P.No.94 / It.No.13.38 PWD SR 2018-19								
		Each							
			10				10.00	2229.18	22292.00
	Basic Rate	2103.00							
	Area Weightage @ 6%	126.18							
	Total	2229.18							
59	Bescom Charges								
		Each	4				4	15000.00	60000.00
	Sub-Total for CSR 2018-19								43758223.00
	Applicable GST Charges 12% on CSR 2018-19								5250987.00
	Detailed Project Reports (DPR) Charges 1%								490092.00
	Project Management and Quality Control (PMC) Charges 1%								490092.00
	Miscellaneous and unforeseen charges								10606.00
	Grand Total Amount Rs.								50000000.00
	(Rupees Five Hundred Lakhs Only)								

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW.P IWTD SR of 2018-19 and Approved Data Rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other Programs or Grants

Technical Sanction
Accorded For RCC SOR Works
Head of A/C. D.1878
CER NO :...114..... Dt:...28/08/2020
TA — CE (YNK)

Consultant
For Civil Prime Consultants and
Engineers

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Assistant Engineer

Executive Engineer
Yelahanka - Division
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Administrative Sanction for Rs. 500.00 Lakhs
Rupees Five Crore Only
is accorded under head D.1878
Registered as CE No. 60 Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNK/AS/69/2020-21 Dt. 12/11/2020

Executive Engineer